

SECTION VI - Part 4 of 5
PROJECT MANAGEMENT AND INFORMATION TECHNOLOGY TEMPLATES

A202 - Test Cases Coversheet

System:	Item Number: A202
Title: Test Cases	
RFP Reference: Section VI Part 3, Q.3	
Date of Submission: <ul style="list-style-type: none">• Ten (10) days prior to the end of the Development Phase• Updates as needed.	
Distribution: <ul style="list-style-type: none">• CDCR: 1 copy along with a magnetic media containing MS Office format copy.• V&V: 1 copy along with a magnetic media containing MS Office format copy.	
Approval: CDCR written approval is required.	
Comment: Change pages may be delivered upon approval of changes to the requirements until the cumulative total number of change pages reaches 10% of the final submission, upon which the entire document shall be re-issued.	
Preparation Instructions: <p>The Contractor shall provide this document according to the standards defined in the documentation plan.</p> <p>The deliverable(s) shall include at a minimum the contents of the template in and/or following this coversheet, or equivalent as determined by the Project Director or designee. Providing less information than required in the template or any exceptions shall not be allowed unless advance written permission is obtained from the Project Director or designee.</p> <ul style="list-style-type: none">• For the Test Cases deliverable, the Actual Results subsection shall not be completed.• Unit Test - shall be performed to test the individually developed hardware and software components to ensure they function properly in isolation from one another.• Integration Test - shall combine hardware components, software components, and system interfaces in an orderly progression to evaluate the interaction between them until the entire system has been assembled. The test shall ensure that the sets behave as well as the independently tested units did, and to demonstrate that this	

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<p>combination fulfills the system requirements. The testing shall prove that all areas of a system will interface with each other correctly, that the data flow does not include any gaps, and that the system works as a integrated unit when all the fixes are complete.</p> <ul style="list-style-type: none">• System Test - shall be performed to evaluate whether the complete, integrated system complies with its specified requirements. System testing shall demonstrate that the software and hardware together accomplish all system functions and that the build process has resulted in a product that is ready for production. System testing shall ensure that all independently tested units/modules/components function as expected when integrated as a whole.• Performance Benchmark Test - shall be performed to determine whether or not a system can adequately and efficiently handle the volume of data expected to be maintained and processed by the system, and to demonstrate the response times achieved with each transaction. The test shall ensure that the system operates in a similar manner regardless of the load being processed at a given time. The test shall demonstrate and confirm the optimal maximum system size to guarantee acceptable performance.• User Acceptance Test - shall be performed to determine whether or not a system meets the customer's expectations as documented in the System Requirements Specification. The user acceptance test shall be planned and executed in coordination with the customer, and shall ensure that the system operates in the manner expected. The test shall demonstrate the full business functionality of the system as performed by the user in production mode.	

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Test Cases Template

The testing process assesses and evaluates the quality of work throughout the project life cycle, and it verifies that the design and development of the solution satisfy the requirements. Test Cases provide a means to systematically conduct testing and to record the results of the testing. Test Cases shall document the environment and the circumstances surrounding each individual test. The test cases shall conform to the strategy documented and include the tests identified in the Test and Evaluation Master Plan. Prepare separate test cases for each of the following tests: Unit Testing, Integration Testing, System Testing, User Acceptance Testing, and Performance Benchmark Testing.

Test Case Header

Include the words Test Name, Test Package Number, Test Number, Test Function, Test, Description, System Date, Test Date, Tester's Identity, whether the test passed, failed, was invalid, or produced no noticeable change. The following figure provides an example of the test case header.

[System Name] Test
[Test Name] Test

Test Packet No.: _____ Test No.: _____
Test Function: _____
Test: _____
Description: _____
System Date: _____ Test Date: _____
Tester: _____
Pass _____ Fail _____ Invalid Test _____ No Noticeable Change _____

1.0 INTRODUCTION

1.1 Scope

Identify the system and the requirements to be tested. Describe the features of the system which are the object of the test. Specify the major activities, techniques, and tools to be used.

1.2 Purpose

Provide a brief discussion on the need for conducting this specific test for this project.

2.0 ROLES AND RESPONSIBILITIES

Describe each project team member and stakeholder involved in the test, and identify their associated responsibilities for ensuring the test is executed appropriately.

3.0 TEST

3.1 Test Items

Identify the features to be exercised by this test case.

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3.2 Input

Specify each input and their sequence required to execute the test case.

3.3 Output

Specify all of the outputs, the specific sequence of each output in relation to the inputs, and features required of the test. Provide the exact value, with tolerances where appropriate, for each required output or feature.

3.4 Environment

Identify the characteristics and configurations of the hardware required to execute the test case, if appropriate. Identify the system and application software required to execute the test case, if appropriate. Specify any other requirements such as unique facility needs.

4.0 EXPECTED RESULTS

Describe the outcome anticipated from the test case. Specify the criteria to be used to determine whether the item has passed or failed.

5.0 SET-UP PROCEDURES

Describe the sequence of actions necessary to prepare for execution of the test.

6.0 STOP PROCEDURES

Describe the sequence of actions necessary to terminate the test.

7.0 ACTUAL RESULTS

7.1 Output

The actual results shall demonstrate the various outputs produced during the test as well as the final outcome at the conclusion of the test. While executing the test, record and describe the visually observable outputs as they occur. Produce tangible evidence of the output such as a screen print. At the conclusion, describe the actual outcome. Indicate whether the test passed or failed, and identify any discrepancies between the expected results and the actual results.

7.2 Test Incident Log

Describe the method to be used to record and monitor each test case that does not produce the expected results. Explain the process used to uniquely identify each separate incident. The incident log shall include, but not limited to, the following information: incident number, test packet number, test number, description of incident, tester's name, retest date, and results of retest. Indicate who will maintain and monitor the test incident log.